BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Estimate for Improvements to CC Road at Naidu Layout in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Estimate Cost Rs. 3000000.00

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	CC Road		1	120.00	4.00	0.30	144.00		
			1	65.00	4.00	0.30	78.00		
			1	35.00	2.80	0.30	29.40		
			1	15.00	2.20	0.30	9.90		
			1	60.00	3.00	0.30	54.00		
	CC Drains		1	120.00	0.80	0.90	86.40		
	Culverts		1	7.70	2.00	1.20	18.48		
			1	8.00	2.80	1.20	26.88		
			1	7.50	2.20	1.20	19.80		
							466.86	83.16	**38824.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
			1	65.00		1.35	87.75		
							87.75	63.72	**5591.00**
	Basic Rate	59.00							
	Area Weightage @8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
	Consider 75% of the Qty		Qty Vide Item No. 02				65.81		
							65.81	78.84	**5189.00**
	Basic Rate	73.00							
	Area Weightage @8%	5.84							
	Total	**78.84**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete 7.5 cms thick **Page No. 25 / Item No. 5.31.1/ PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 02*25%				21.94		
							21.94	663.12	**14547.00**
	Basic Rate	614.00							
	Area Weightage @8%	49.12							
	Total	**663.12**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC ment @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**	Cum							
	CC Road		1	120.00	4.00	0.15	72.00		
			1	65.00	4.00	0.15	39.00		
			1	35.00	2.80	0.15	14.70		
			1	15.00	2.20	0.15	4.95		
			1	60.00	3.00	0.15	27.00		
	CC Drains		1	120.00	0.80	0.15	14.40		
	Culverts		1	7.70	2.00	0.15	2.31		
			1	8.00	2.80	0.15	3.36		
			1	7.50	2.20	0.15	2.48		
	SSM Wall		1	20.00	0.60	0.15	1.80		
							182.00	5070.60	**922824.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
6	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	For Culverts		2	7.70	0.60	0.90	8.32		
			2	8.00	0.60	0.90	8.64		
			2	7.50	0.60	0.90	8.10		
	SSM Wall		1	20.00	0.60	0.90	10.80		
							35.86	4135.32	**148276.00**
	Basic Rate	3829.00							
	Area Weightage @ 8%	306.32							
	Total	**4135.32**							
7	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.1 / PWD SR 2015-16**	Sqm							
	For Culverts Pointing		2	7.70		0.90	13.86		
			2	8.00		0.90	14.40		
			2	7.50		0.90	13.50		
			1	20.00		0.90	18.00		
							59.76	99.36	**5938.00**
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	**99.36**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Coping		1	7.70	1.95	0.10	1.50		
			1	8.00	2.70	0.10	2.16		
			1	7.50	2.10	0.10	1.58		
			1	20.00	0.60	0.10	1.20		
							6.44	5490.72	**35341.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	For CC Drain		3	120.00	0.45		162.00		
	CC Road		2	120.00		0.30	72.00		
			2	65.00		0.30	39.00		
			2	35.00		0.30	21.00		
			2	15.00		0.30	9.00		
			2	60.00		0.30	36.00		
							339.00	306.72	**103978.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							
10	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	CC Drain Bottom		1	120.00	0.80	0.15	14.40		
	Side Wall		2	120.00	0.15	0.60	21.60		
							36.00	6332.04	**227953.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, ending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For CC Drain @ 60 Kg/ Cum		0.06	36.00			2.16		
							2.16	59327.91	**128148.00**
	Basic Rate	54933.25							
	Area Weightage @ 8%	4394.66							
	Total	**59327.91**							
12	Providing precast slab of **250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	**Sqm**							
	Culverts		1	7.70	1.95		15.02		
			1	8.00	2.70		21.60		
			1	7.50	2.10		15.75		
							52.37	5125.00	**268371.00**
	Approved Rate=5125.00								
13	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per	Cum							
	CC Road		1	120.00	4.00	0.125	60.00		
			1	65.00	4.00	0.125	32.50		
			1	35.00	2.80	0.125	12.25		
			1	15.00	2.20	0.125	4.13		
			1	60.00	3.00	0.125	22.50		
							131.38	5287.68	**694669.00**
	Basic Rate	4896.00							
	Area Weightage @ 8%	391.68							
	Total	**5287.68**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Vaccum De-watering with vaccum pump and suction mat and compaction with **skin floater ubbed with floating disc** including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	CC Road		1	120.00	4.00		480.00		
			1	65.00	4.00		260.00		
			1	35.00	2.80		98.00		
			1	15.00	2.20		33.00		
			1	60.00	3.00		180.00		
							1051.00	97.20	**102157.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
15	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum							
			Qty. Vide Item No. 1				**466.86**	106.34	**49644.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
	Sub Total								**2751450.00**
	KRIDL Charges @ 8%								**220116.00**
	Third Party Inspection Charges @ 1%								**27515.00**
	Miscellaneous and unforeseen charges	L/S							**919.00**
								Total	**3000000.00**

(Rupees Thirty Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For 30.00 Lakhs.
Head of A/C P2415
CER NO : 40 Dt: 22.9.16

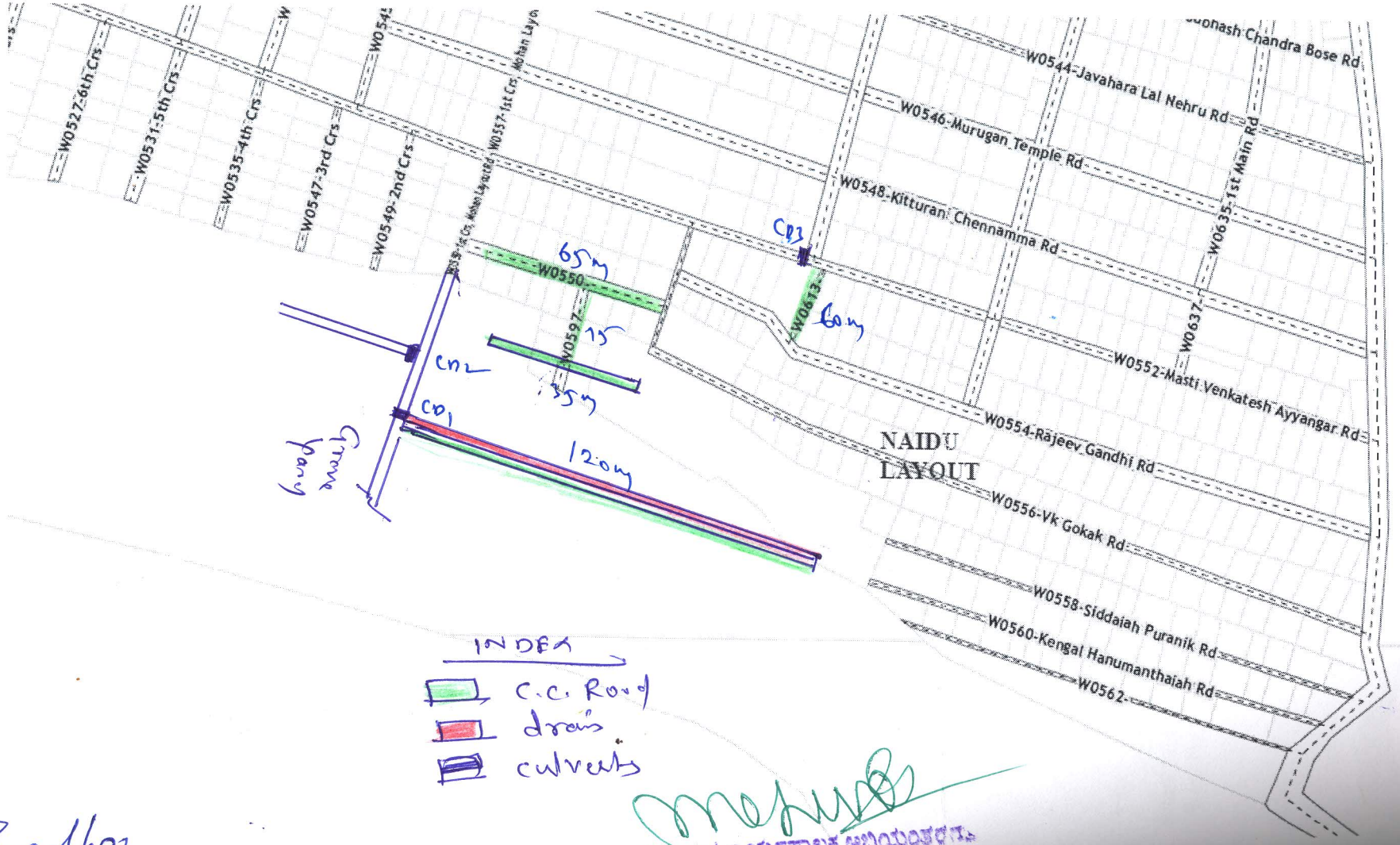
TA CE (YNK)

Technical Sanction
Accorded For 30.00 Lakhs
Head of A/C P2415 09
CER NO : 50 Dt: 22/9/16

TA CE (YNK)

(5)

Name of work: Estimate for Improvements to CC Road at Naidu Layout in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.



Jadhav
AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97.